

Comparisons of Job Characteristics

Focus Occupation: Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic (51-4191)

Associated Occupation: Computer-Controlled Machine Tool Operators, Metal and Plastic (51-4011)

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 78

Focus Occupation: Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic (51-4191)

Associated Occupation: Computer-Controlled Machine Tool Operators, Metal and Plastic (51-4011)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Mechanical	6.8	15.8	7.3	<<	Extensive education and/or training may be required
Mathematics	9.2	10.9	6.2	<<	Extensive education and/or training may be required
Production and Processing	6.0	10.9	8.6	<	Expanded education and/or training may be required
Computers and Electronics	8.4	8.5	7.2	<	Expanded education and/or training may be required
Engineering and Technology	5.7	7.8	6.2	<	Expanded education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 82

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Associated Occupation: Computer-Controlled Machine Tool Operators, Metal and Plastic (51-4011)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Operation Monitoring	6.6	13.2	11.8	<	A higher skill level may be required
Monitoring	9.9	13.0	10.2	<	A higher skill level may be required
Quality Control Analysis	5.9	11.8	8.6	<<	Extensive development of skills in this area may be required
Operation and Control	5.4	11.1	12.0	0	Current skill level may be sufficient
Troubleshooting	4.5	9.2	7.3	<	A higher skill level may be required

Equipment Maintenance	3.5	8.2	8.9	0	Current skill level may be sufficient
Equipment Selection	3.3	8.0	6.7	<	A higher skill level may be required
Repairing	3.4	7.6	8.1	0	Current skill level may be sufficient
Programming	2.2	7.2	2.4	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 83

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Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Reaction Time	4.8	13.2	11.6	<	Some improvement in abilities may be required
Auditory Attention	5.9	13.0	7.7	<<	Extensive improvement in abilities may be required
Hearing Sensitivity	5.6	12.6	8.5	<<	Extensive improvement in abilities may be required
Control Precision	6.6	12.2	11.0	<	Some improvement in abilities may be required
Selective Attention	8.7	11.6	11.4	0	Current ability level may be sufficient
Depth Perception	5.3	10.7	8.4	<	Some improvement in abilities may be required
Rate Control	3.8	10.1	9.5	0	Current ability level may be sufficient
Wrist-Finger Speed	3.2	8.0	5.7	<<	Extensive improvement in abilities may be required
Sound Localization	2.2	5.9	3.8	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 82

Focus Occupation: Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic (51-4191)

Associated Occupation: Computer-Controlled Machine Tool Operators, Metal and Plastic (51-4011)

Work Activities	Exclusivity of Activity
Adjust production equipment/machinery setup	25
Clean equipment or machinery	20
Examine products or work to verify conformance to specifications	15
Install equipment or attachments on machinery or related structures	48
Load or unload material or workpiece into machinery	34
Load, unload, or stack containers, materials, or products	37

Maintain or repair industrial or related equipment/machinery	39
Move or fit heavy objects	8
Operate hoist, winch, or hydraulic boom	34
Operate metal or plastic fabricating equipment/machinery	54
Perform safety inspections in manufacturing or industrial setting	33
Read work order, instructions, formulas, or processing charts	9
Set up production equipment or machinery	51
Understand technical operating, service or repair manuals	6
Use precision measuring tools or equipment	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

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Tools and Technologies	Exclusivity
Tools and technology data is unavailable for one or both occupations.	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.